

2006-07 Idaho 6th Grade Direct Mathematics Assessment

<p style="font-size: 1.2em; color: gray; text-align: center;">Place Student Label Here</p> <p style="font-size: 0.8em; color: gray; text-align: center;">WRITE STUDENT NAME IN PENCIL ONLY</p> <div style="font-size: 0.7em; color: gray; text-align: center;"> LEP <input type="radio"/> MIG <input type="radio"/> TIA <input type="radio"/> NOD <input type="radio"/> HML <input type="radio"/> SPE <input type="radio"/> ACM <input type="radio"/> ADM <input type="radio"/> AAM <input type="radio"/> GAT <input type="radio"/> </div>	<p style="text-align: center; font-weight: bold; margin-bottom: 10px;">STUDENTS DO NOT WRITE IN THIS AREA</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; text-align: center; vertical-align: top;"> <p><i>ROUND 1</i></p> <p>T: ____ R: ____</p> <div style="border: 1px solid black; width: 60px; height: 40px; margin: 10px auto;"></div> </td> <td style="width: 33%; text-align: center; vertical-align: top;"> <p><i>ROUND 2</i></p> <p>T: ____ R: ____</p> <div style="border: 1px solid black; width: 60px; height: 40px; margin: 10px auto;"></div> </td> <td style="width: 33%; text-align: center; vertical-align: top;"> <p><i>FINAL</i></p> <div style="border: 2px solid black; width: 70px; height: 60px; margin: 10px auto;"></div> </td> </tr> </table>	<p><i>ROUND 1</i></p> <p>T: ____ R: ____</p> <div style="border: 1px solid black; width: 60px; height: 40px; margin: 10px auto;"></div>	<p><i>ROUND 2</i></p> <p>T: ____ R: ____</p> <div style="border: 1px solid black; width: 60px; height: 40px; margin: 10px auto;"></div>	<p><i>FINAL</i></p> <div style="border: 2px solid black; width: 70px; height: 60px; margin: 10px auto;"></div>
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**It is important that you show or explain how you solved the problems on this assessment.
If you use a calculator, show how you set up the math.**

1. A 15-person soccer team wants to order new uniforms. They received the following price list for the four pieces that make up a complete uniform: (All prices are for one item, including sales tax.)

<u>Uniform Price List</u>	
Shirt	\$12.50
Shorts	\$ 7.25
Warm-Up Jacket	\$21.00
Warm-Up Pants	\$15.00

- a. What is the total cost of purchasing complete uniforms for the entire team? *Show or explain how you found your answer.*

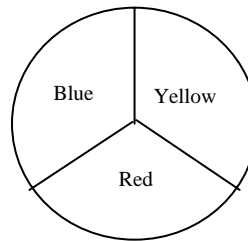
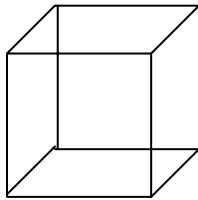
- b. A local construction company is sponsoring the team by giving them \$500 to help purchase the uniforms. How much will each player need to pay to get a complete uniform? *Show or explain how you found your answer.*

- c. One player can earn \$5.40 an hour by helping a local farmer. How many full hours will he have to work to pay for his share of the cost of a complete uniform? *Show or explain how you found your answer.*

- d. Last week $\frac{2}{3}$ of the uniforms were delivered. How many uniforms have not yet been delivered? *Show or explain how you found your answer.*

Read problems 2, 3, 4, and 5 on this and the next two pages.
Select three problems to answer. Answer ALL of the parts of the three problems you select to answer.
Cross out the one problem that you do not choose to answer.

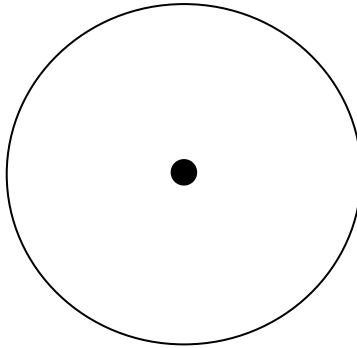
- 2.** Teresa and Jack were playing a board game. In this game the players have to roll a six-sided number cube and then spin a 3-colored spinner.



- What is the probability that Teresa will roll an odd number on the number cube on her first roll? Write the probability as a fraction. *Show or explain how you found your answer.*
- What is the probability that Jack will spin a blue or red on the spinner on his first spin? Write the probability as a fraction. *Show or explain how you found your answer.*
- Make a list of all possible outcomes if Teresa rolls the number cube and spins the spinner. What is the total number of outcomes? *Show or explain how you found your answer.*

3. Daryl was excited for summer vacation. The circle below represents Daryl's summer vacation. Daryl spent $\frac{1}{2}$ of his summer on his uncle's farm. He spent $\frac{1}{4}$ of the summer at camp. He spent $\frac{1}{8}$ of the summer playing baseball. He swims $\frac{1}{16}$ of the summer. The rest of the summer is spent with his friends.
- a. Using the information above, complete the circle graph below to show how Daryl spends his summer. Label each section of the graph. *Show or explain how you found your answer.*

DARYL'S SUMMER VACATION



- What fraction of his summer is spent playing with friends? *Show or explain how you found your answer.*
- What fraction of time is spent swimming and playing with his friends? *Show or explain how you found your answer.*
- Daryl's summer vacation is 64 days long. Draw and label a bar graph to represent the number of days spent doing each activity.

[illegible]

4. Joe is earning money to buy a bike. He saved \$10.50 the first month, \$21.00 more the second month, and \$42.00 more the third month.

- a. Complete the table below to find the amount he saved in the fourth month, if the pattern continues.

Month	Money Saved
1 st	\$10.50
2 nd	\$21.00
3 rd	\$42.00
4 th	

- b. What was the **total** amount of money Joe had saved by the end of the fourth month? *Show or explain how you found your answer.*
- c. The bike costs \$340.00. How many months will Joe have to save in order to have enough money to buy the bike? *Show or explain how you found your answer.*
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5. Freedom School has a track and field team. They hold the state record in many events.

- a. Sandy won the hundred-yard dash in 2003.
How many feet are in the hundred-yard dash?
Show or explain how you found your answer.

1 foot	=	12 inches
1 yard	=	3 feet
1 mile	=	5280 feet

- b. Carlos can run a mile in eight minutes. How many feet does he run each minute? *Show or explain how you found your answer.*
- c. Jamie held the record in cross-country running. He trained by running 9 miles a week. How many yards did he run each week? *Show or explain how you found your answer.*